

**Claims:**

1. In an automatic transmission engaged in a manual transmission for operating a selector lever 2 and a shift lever 3 installed in a control shaft of a manual transmission, an automatic transmission engaged in a manual transmission that is characterized in that a motor 18 is installed in a post 19 of both sides fixed to a transmission, and a first shaft 10 and a second shaft 10a having a forward movement guide groove 12 and a backward movement guide groove 14 are provided in the motor 18, and feeders 20 and 20a each having a connection pin 22 having a rectangular hole 24 are assembled in such a manner that the feeders 20 and 20a are linearly moved along the forward and backward movement guide grooves when the first and second shafts are rotated, and the feeder 20 assembled to the first shaft 1 is connected with the fixing pin 1a of the selector lever, and the feeder 20a assembled to the second shaft is connected with the fixing pin 3a of the shift lever 3.

15

2. In an automatic transmission capable of operating a clutch lever of a clutch installed in a manual transmission, an automatic transmission engaged in a manual transmission that is characterized in that a spiral shaft 30 rotating based on a driving of a motor 40 is provided at both sides, and a feeder 32 assembled to the spiral shaft of both sides has a hole 34 in a center portion, and a clutch lever 8 is inserted into the hole, and a clutch is operated based on a linear movement of the feeder.